

Refine Search

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L9 and carboxybenzaldehyde	61

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 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

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L10

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result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L10</u>	L9 and carboxybenzaldehyde	61	<u>L10</u>
<u>L9</u>	L8 and (560/\$ or 562/\$)	61	<u>L9</u>
<u>L8</u>	L7 and terephthalic acid	70	<u>L8</u>
<u>L7</u>	L6 and acetic acid	72	<u>L7</u>
<u>L6</u>	L4 and brom\$9	72	<u>L6</u>
<u>L5</u>	L4 and 560/\$	5	<u>L5</u>
<u>L4</u>	L3 and carboxybenzaldehyde	72	<u>L4</u>
<u>L3</u>	L2 and nickel and bromine and manganese	420	<u>L3</u>
<u>L2</u>	AROMATIC CARBOXYLIC ACID AND XYLENE AND OXYGEN	3352	<u>L2</u>

DB=USPT; PLUR=YES; OP=ADJ

<u>L1</u>	4786753.pn.	1	<u>L1</u>
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☐ 1. Document ID: US 20060287552 A1

L10: Entry 1 of 61

File: PGPB

Dec 21, 2006

PGPUB-DOCUMENT-NUMBER: 20060287552

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060287552 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: December 21, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
Lightfoot; Thomas Young	Kingsport	TN	US
Woodruff; Thomas Earl	Kingsport	TN	US
Hitchcock; Charles Helton	Jonesborough	TN	US
Denton; David Lee	Kingsport	TN	US
McCurry; Carl Norman	West Columbia	SC	US

US-CL-CURRENT: 562/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 2. Document ID: US 20060205976 A1

L10: Entry 2 of 61

File: PGPB

Sep 14, 2006

PGPUB-DOCUMENT-NUMBER: 20060205976

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060205976 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: September 14, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
Lavoie; Gino Georges	Kingsport	TN	US
Sumner; Charles Edwan JR.	Kingsport	TN	US

Davenport; Bryan Wayne	Columbia	SC	US
de Vreede; Marcel	Barendrecht	TN	NL
Tennant; Brent Alan	Kingsport		US

US-CL-CURRENT: 562/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D.
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☐ 3. Document ID: US 20060205975 A1

L10: Entry 3 of 61

File: PGPB

Sep 14, 2006

PGPUB-DOCUMENT-NUMBER: 20060205975

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060205975 A1

TITLE: Processes for producing aromatic dicarboxylic acids

PUBLICATION-DATE: September 14, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Lavoie; Gino Georges	Kingsport	TN	US
Hembre; Robert Thomas	Johnson City	TN	US
Sumner; Charles Edwan JR.	Kingsport	TN	US
Bays; Joseph Nathaniel	Kingsport	TN	US
Compton; Daniel Burts	Kingsport	TN	US
Tennant; Brent Alan	Kingsport	TN	US
Davenport; Bryan Wayne	Columbia	SC	US
Lange; David	Irmo	SC	US
Floyd; Thomas Richard	Kingsport	TN	US

US-CL-CURRENT: 562/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D.
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☐ 4. Document ID: US 20060116530 A1

L10: Entry 4 of 61

File: PGPB

Jun 1, 2006

PGPUB-DOCUMENT-NUMBER: 20060116530

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060116530 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: June 1, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
Lin; Robert	Kingsport	TN	US
Partin; Lee Reynolds	Kingsport	TN	US
de Vreede; Marcel	Barendrecht	TN	NL
Strasser; Wayne Scott	Kingsport		US

US-CL-CURRENT: 562/412

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. D
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☐ 5. Document ID: US 20060094901 A1

L10: Entry 5 of 61

File: PGPB

May 4, 2006

PGPUB-DOCUMENT-NUMBER: 20060094901

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060094901 A1

TITLE: Process for the production of carboxylic acids

PUBLICATION-DATE: May 4, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Whiston; Keith			US
Jones; Graham Howard			US

US-CL-CURRENT: 562/545

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. D
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☐ 6. Document ID: US 20060047163 A1

L10: Entry 6 of 61

File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047163

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060047163 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
de Vreede; Marcel	Barendrecht	TN	NL
Wonders; Alan George	Kingsport	TN	US
Lin; Robert	Kingsport		US

US-CL-CURRENT: 562/416

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D.
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☐ 7. Document ID: US 20060047162 A1

L10: Entry 7 of 61

File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047162

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060047162 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
Jenkins; Howard Wood JR.	Pendleton	SC	US
Partin; Lee Reynolds	Kingsport	TN	US
Strasser; Wayne Scott	Kingsport	TN	US
de Vreede; Marcel	Barendrecht		NL

US-CL-CURRENT: 562/416

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D.
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☐ 8. Document ID: US 20060047161 A1

L10: Entry 8 of 61

File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047161

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060047161 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
Partin; Lee Reynolds	Kingsport	TN	US
Strasser; Wayne Scott	Kingsport	TN	US
de Vreede; Marcel	Barendrecht		NL

US-CL-CURRENT: 562/416

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D.
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☐ 9. Document ID: US 20060047160 A1

L10: Entry 9 of 61

File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047160

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060047160 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
de Vreede; Marcel	Barendrecht	TN	NL
Partin; Lee Reynolds	Kingsport	TN	US
Strasser; Wayne Scott	Kingsport		US

US-CL-CURRENT: 562/416

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D.
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☐ 10. Document ID: US 20060047159 A1

L10: Entry 10 of 61

File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047159

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060047159 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
Lin; Robert	Kingsport	TN	US
de Vreede; Marcel	Barendrecht	TN	NL
Partin; Lee Reynolds	Kingsport		US

US-CL-CURRENT: 562/416

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D.
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☐ 11. Document ID: US 20060047158 A1

L10: Entry 11 of 61

File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047158

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060047158 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
Partin; Lee Reynolds	Kingsport	TN	US
Strasser; Wayne Scott	Kingsport	TN	US
de Vreede; Marcel	Barendrecht	MO	NL
Gupta; Puneet	Saint Peters		US

US-CL-CURRENT: 562/416

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 12. Document ID: US 20060047157 A1

L10: Entry 12 of 61

File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047157

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060047157 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
Jenkins; Howard Wood JR.	Pendleton	SC	US
Partin; Lee Reynolds	Kingsport	TN	US
Strasser; Wayne Scott	Kingsport	TN	US

de Vreede; Marcel

Barendrecht

NL

US-CL-CURRENT: 562/414

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 13. Document ID: US 20060047156 A1

L10: Entry 13 of 61

File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047156

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060047156 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
de Vreede; Marcel	Barendrecht	TN	NL
Partin; Lee Reynolds	Kingsport	TN	US
Strasser; Wayne Scott	Kingsport	MO	US
Gupta; Puneet	Saint Peters		US

US-CL-CURRENT: 562/414; 562/416

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 14. Document ID: US 20060047155 A1

L10: Entry 14 of 61

File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047155

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060047155 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
Lavoie; Gino Georges	Kingsport	TN	US
Sumner; Charles Edwan JR.	Kingsport	TN	US

US-CL-CURRENT: 562/414

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 15. Document ID: US 20060047154 A1

L10: Entry 15 of 61

File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047154

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060047154 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
Partin; Lee Reynolds	Kingsport	TN	US
Strasser; Wayne Scott	Kingsport	TN	US
de Vreede; Marcel	Barendrecht		NL

US-CL-CURRENT: 562/414

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 16. Document ID: US 20060047153 A1

L10: Entry 16 of 61

File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047153

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060047153 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
Lavoie; Gino Georges	Kingsport	TN	US
Sumner; Charles Edwan JR.	Kingsport	TN	US
Davenport; Bryan Wayne	Columbia	SC	US

US-CL-CURRENT: 562/414

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 17. Document ID: US 20060047152 A1

L10: Entry 17 of 61

File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047152

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060047152 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
Lavoie; Gino Georges	Kingsport	TN	US
Sumner; Charles Edwan JR.	Kingsport	TN	US

US-CL-CURRENT: 562/414

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 18. Document ID: US 20060047151 A1

L10: Entry 18 of 61

File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047151

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060047151 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
Partin; Lee Reynolds	Kingsport	TN	US
Strasser; Wayne Scott	Kingsport	TN	US
de Vreede; Marcel	Barendrecht		NL

US-CL-CURRENT: 562/414

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 19. Document ID: US 20060047150 A1

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File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047150

PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060047150 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
Lightfoot; Thomas Young	Kingsport	TN	US
Sumner; Charles Edwan JR.	Kingsport	TN	US
Woodruff; Thomas Earl	Kingsport	TN	US
Arnold; Ernest William III	Lake Wylie	SC	US
Fugate; Eric Jackson	Gate City	VA	US
Hitchcock; Charles Helton	Jonesborough	TN	US
Tennant; Brent Alan	Kingsport	TN	US

US-CL-CURRENT: 562/414

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 20. Document ID: US 20060047149 A1

L10: Entry 20 of 61

File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047149
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060047149 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
de Vreede; Marcel	Barendrecht	TN	NL
Partin; Lee Reynolds	Kingsport	TN	US
Strasser; Wayne Scott	Kingsport		US

US-CL-CURRENT: 562/414

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 21. Document ID: US 20060047148 A1

L10: Entry 21 of 61

File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047148

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060047148 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
Lightfoot; Thomas Young	Kingsport	TN	US
Woodruff; Thomas Earl	Kingsport	TN	US
Hitchcock; Charles Helton	Jonesborough	TN	US
Denton; David Lee	Kingsport	TN	US
McCurry; Carl Norman	West Columbia	SC	US

US-CL-CURRENT: 562/414; 562/484

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 22. Document ID: US 20060047147 A1

L10: Entry 22 of 61

File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047147

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060047147 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
Strasser; Wayne Scott	Kingsport	TN	US
de Vreede; Marcel	Barendrecht	TN	NL

Tidwell; J. Thomas

Kingsport

US

US-CL-CURRENT: 562/414; 422/223, 422/231

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 23. Document ID: US 20060047146 A1

L10: Entry 23 of 61

File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047146

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060047146 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
Partin; Lee Reynolds	Kingsport	TN	US
Strasser; Wayne Scott	Kingsport	TN	US
de Vreede; Marcel	Barendrecht	MO	NL
Gupta; Puneet	Saint Peters		US

US-CL-CURRENT: 562/414

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 24. Document ID: US 20060047145 A1

L10: Entry 24 of 61

File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047145

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060047145 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
de Vreede; Marcel	Barendrecht	TN	NL
Partin; Lee Reynolds	Kingsport	TN	US
Strasser; Wayne Scott	Kingsport		US

US-CL-CURRENT: 562/414

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 25. Document ID: US 20060047144 A1

L10: Entry 25 of 61

File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047144

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060047144 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
de Vreede; Marcel	Barendrecht	TN	NL
Partin; Lee Reynolds	Kingsport	TN	US
Strasser; Wayne Scott	Kingsport		US

US-CL-CURRENT: 562/414

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 26. Document ID: US 20060047143 A1

L10: Entry 26 of 61

File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047143

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060047143 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
Gupta; Puneet	Saint Peters	MO	US
Partin; Lee Reynolds	Kingsport	TN	US
Strasser; Wayne Scott	Kingsport	TN	US
de Vreede; Marcel	Barendrecht		NL

US-CL-CURRENT: 562/414

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 27. Document ID: US 20060047142 A1

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File: PGPB

Mar 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060047142

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060047142 A1

TITLE: Optimized liquid-phase oxidation

PUBLICATION-DATE: March 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wonders; Alan George	Kingsport	TN	US
Jenkins; Howard Wood JR.	Pendleton	SC	US
Partin; Lee Reynolds	Kingsport	TN	US
Strasser; Wayne Scott	Kingsport	TN	US
de Vreede; Marcel	Barendrecht		NL

US-CL-CURRENT: 562/414; 422/140, 422/224

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 28. Document ID: US 20050192459 A1

L10: Entry 28 of 61

File: PGPB

Sep 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050192459

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050192459 A1

TITLE: Oxidation of aromatic hydrocarbons using brominated anthracene promoters

PUBLICATION-DATE: September 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Metelski, Peter D.	Aurora	IL	US
Espenson, James H.	Ames	IA	US

US-CL-CURRENT: 562/416

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 29. Document ID: US 20040199006 A1

L10: Entry 29 of 61

File: PGPB

Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040199006
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040199006 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: October 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Graham, Derek Alexander	Cleveland		GB
Hamley, Paul Anthony	Nottingham		GB
Oliver, Raymond	Stockton On Tees		GB
Poliakoff, Martyn	Nottingham		GB
Woodcock, Duncan C.	Cheshire		GB
Ilkenhans, Thomas	Cambridge		GB

US-CL-CURRENT: 562/412

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 30. Document ID: US 20030050504 A1

L10: Entry 30 of 61

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030050504
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030050504 A1

TITLE: Process for the preparation of an aromatic carboxylic acid

PUBLICATION-DATE: March 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Srinivas, Darbha	Pune		IN
Chavan, Suhas Arunkumar	Pune		IN
Ratnasamy, Paul	Pune		IN

US-CL-CURRENT: 562/415

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 31. Document ID: US 20020173674 A1

L10: Entry 31 of 61

File: PGPB

Nov 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020173674

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020173674 A1

TITLE: Production, purification and polymerization of aromatic dicarboxylic acids

PUBLICATION-DATE: November 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Rao, Krishna Kulai	Kingwood	TX	US
Sellen, Russell D.	Beaumont	TX	US
Feng, Xiaobing	Houston	TX	US
Spanswick, James	Wheaton	IL	US
Huber, William F. JR.	Naperville	IL	US

US-CL-CURRENT: 560/77; 560/78

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMAC	Draw. De
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☐ 32. Document ID: US 20020173673 A1

L10: Entry 32 of 61

File: PGPB

Nov 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020173673

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020173673 A1

TITLE: Production, purification and polymerization of aromatic dicarboxylic acids

PUBLICATION-DATE: November 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Rao, Krishna Kulai	Kingwood	TX	US
Sellen, Russell D.	Beaumont	TX	US
Feng, Xiaobing	Houston	TX	US

US-CL-CURRENT: 560/77; 560/78

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 33. Document ID: US 20020028968 A1

L10: Entry 33 of 61

File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020028968

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020028968 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Graham, Derek Alexander	Cleveland		GB
Hamley, Paul Anthony	Nottingham		GB
Ilkenhans, Thomas	Cambridge		GB
Oliver, Raymond	Stockton on Tees		GB
Poliakoff, Martyn	Nottingham		GB
Woodcock, Duncan C.	Cheshire		GB

US-CL-CURRENT: 562/415

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 34. Document ID: US 7153480 B2

L10: Entry 34 of 61

File: USPT

Dec 26, 2006

US-PAT-NO: 7153480

DOCUMENT-IDENTIFIER: US 7153480 B2

TITLE: Apparatus for and method of producing aromatic carboxylic acids

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040234435 A1	November 25, 2004

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 35. Document ID: US 7098360 B2

L10: Entry 35 of 61

File: USPT

Aug 29, 2006

US-PAT-NO: 7098360

DOCUMENT-IDENTIFIER: US 7098360 B2

TITLE: Processes employing multiple successive chemical reaction process steps and apparatus therefore

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20040013587 A1

January 22, 2004

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM/C	Draw D
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☐ 36. Document ID: US 6765113 B2

L10: Entry 36 of 61

File: USPT

Jul 20, 2004

US-PAT-NO: 6765113

DOCUMENT-IDENTIFIER: US 6765113 B2

TITLE: Production of aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM/C	Draw D
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☐ 37. Document ID: US 6649791 B2

L10: Entry 37 of 61

File: USPT

Nov 18, 2003

US-PAT-NO: 6649791

DOCUMENT-IDENTIFIER: US 6649791 B2

TITLE: Process for the preparation of an aromatic carboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM/C	Draw D
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☐ 38. Document ID: US 6642407 B2

L10: Entry 38 of 61

File: USPT

Nov 4, 2003

US-PAT-NO: 6642407

DOCUMENT-IDENTIFIER: US 6642407 B2

TITLE: Production, purification and polymerization of aromatic dicarboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM/C	Draw D
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☐ 39. Document ID: US 6506931 B1

L10: Entry 39 of 61

File: USPT

Jan 14, 2003

US-PAT-NO: 6506931

DOCUMENT-IDENTIFIER: US 6506931 B1

**** See image for Certificate of Correction ****TITLE: Process for producing aromatic carboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 40. Document ID: US 6194607 B1

L10: Entry 40 of 61

File: USPT

Feb 27, 2001

US-PAT-NO: 6194607

DOCUMENT-IDENTIFIER: US 6194607 B1

**** See image for Certificate of Correction ****TITLE: Method of producing aromatic carboxylic acids by oxidizing alkyl aromatic hydrocarbons or partially oxidized intermediates thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 41. Document ID: US 6180822 B1

L10: Entry 41 of 61

File: USPT

Jan 30, 2001

US-PAT-NO: 6180822

DOCUMENT-IDENTIFIER: US 6180822 B1

**** See image for [Certificate of Correction](#) ****

TITLE: Method of producing aromatic carboxylic acids by oxidizing alkyl aromatic compounds or partially oxidized intermediates thereof with carbon dioxide containing gas

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 42. Document ID: US 6175038 B1

L10: Entry 42 of 61

File: USPT

Jan 16, 2001

US-PAT-NO: 6175038

DOCUMENT-IDENTIFIER: US 6175038 B1

**** See image for [Certificate of Correction](#) ****

TITLE: Method of producing aromatic carboxylic acids by oxidizing alkyl aromatic compounds or partially oxidized intermediates thereof with oxygen-enriched gas

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 43. Document ID: US 6143925 A

L10: Entry 43 of 61

File: USPT

Nov 7, 2000

US-PAT-NO: 6143925

DOCUMENT-IDENTIFIER: US 6143925 A

TITLE: Process for producing aromatic carboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 44. Document ID: US 5756833 A

L10: Entry 44 of 61

File: USPT

May 26, 1998

US-PAT-NO: 5756833

DOCUMENT-IDENTIFIER: US 5756833 A

**** See image for Certificate of Correction ****

TITLE: Catalytic purification and recovery of dicarboxylic aromatic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 45. Document ID: US 5705682 A

L10: Entry 45 of 61

File: USPT

Jan 6, 1998

US-PAT-NO: 5705682

DOCUMENT-IDENTIFIER: US 5705682 A

TITLE: Process for producing highly pure terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 46. Document ID: US 5679847 A

L10: Entry 46 of 61

File: USPT

Oct 21, 1997

US-PAT-NO: 5679847

DOCUMENT-IDENTIFIER: US 5679847 A

TITLE: Process for producing terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 47. Document ID: US 5663428 A

L10: Entry 47 of 61

File: USPT

Sep 2, 1997

US-PAT-NO: 5663428

DOCUMENT-IDENTIFIER: US 5663428 A

TITLE: Method for producing aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 48. Document ID: US 5616792 A

L10: Entry 48 of 61

File: USPT

Apr 1, 1997

US-PAT-NO: 5616792

DOCUMENT-IDENTIFIER: US 5616792 A

**** See image for Certificate of Correction ****

TITLE: Catalytic purification of dicarboxylic aromatic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 49. Document ID: US 5453538 A

L10: Entry 49 of 61

File: USPT

Sep 26, 1995

US-PAT-NO: 5453538

DOCUMENT-IDENTIFIER: US 5453538 A

**** See image for Certificate of Correction ****

TITLE: Process for the manufacture of aromatic dicarboxylic acids utilizing cerium to facilitate a low bromine to metals catalyst ratio

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 50. Document ID: US 5362908 A

L10: Entry 50 of 61

File: USPT

Nov 8, 1994

US-PAT-NO: 5362908

DOCUMENT-IDENTIFIER: US 5362908 A

**** See image for Certificate of Correction ****

TITLE: Catalyst and method for purifying crude terephthalic acid, isophthalic acid or naphthalene dicarboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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TITLE: Oxidation with a solid catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 55. Document ID: US 4330676 A

L10: Entry 55 of 61

File: USPT

May 18, 1982

US-PAT-NO: 4330676

DOCUMENT-IDENTIFIER: US 4330676 A

**** See image for Certificate of Correction ****

TITLE: Oxidation process

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 56. Document ID: US 4323699 A

L10: Entry 56 of 61

File: USPT

Apr 6, 1982

US-PAT-NO: 4323699

DOCUMENT-IDENTIFIER: US 4323699 A

TITLE: Oxidation of substituted aromatic compounds to aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 57. Document ID: US 4317919 A

L10: Entry 57 of 61

File: USPT

Mar 2, 1982

US-PAT-NO: 4317919

DOCUMENT-IDENTIFIER: US 4317919 A

TITLE: Recovery of bromine from effluent gases in the oxidation of substituted aromatics to form aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 58. Document ID: US 4314073 A

L10: Entry 58 of 61

File: USPT

Feb 2, 1982

US-PAT-NO: 4314073

DOCUMENT-IDENTIFIER: US 4314073 A

TITLE: Process for the production of an aromatic dicarboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 59. Document ID: US 4258227 A

L10: Entry 59 of 61

File: USPT

Mar 24, 1981

US-PAT-NO: 4258227

DOCUMENT-IDENTIFIER: US 4258227 A

**** See image for Certificate of Correction ****TITLE: Short residence hydropyrolysis of residues from aromatic carboxylic acid
manufacture

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 60. Document ID: US 4258209 A

L10: Entry 60 of 61

File: USPT

Mar 24, 1981

US-PAT-NO: 4258209

DOCUMENT-IDENTIFIER: US 4258209 A

TITLE: Process for preparing terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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L10: Entry 51 of 61

File: USPT

Oct 11, 1994

US-PAT-NO: 5354898

DOCUMENT-IDENTIFIER: US 5354898 A

TITLE: Method for purifying crude aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Drawings
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☐ 52. Document ID: US 4892970 A

L10: Entry 52 of 61

File: USPT

Jan 9, 1990

US-PAT-NO: 4892970

DOCUMENT-IDENTIFIER: US 4892970 A

TITLE: Staged aromatics oxidation in aqueous systems

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Drawings
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☐ 53. Document ID: US 4827025 A

L10: Entry 53 of 61

File: USPT

May 2, 1989

US-PAT-NO: 4827025

DOCUMENT-IDENTIFIER: US 4827025 A

TITLE: Process for the production of aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Drawings
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☐ 54. Document ID: US 4587355 A

L10: Entry 54 of 61

File: USPT

May 6, 1986

US-PAT-NO: 4587355

DOCUMENT-IDENTIFIER: US 4587355 A

**** See image for Certificate of Correction ****